

MEMO

State of Idaho

Department of Water Resources

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Date: April 6, 2009
To: ESHMC
From: Allan Wylie
cc: Sean Vincent, Rick Raymondi
Subject: ESPAM Updated Model Boundary

All

This memo discusses the changes to the model boundary we proposed in the March 31 and April 1, 2009 meeting. I am also proposing some additional changes in the Big and Little Lost River drainages in light of our discussions. Figure 1 shows the changes I am proposing in this memo. The ESPAM boundary is shown in yellow and the updated boundary is in green.

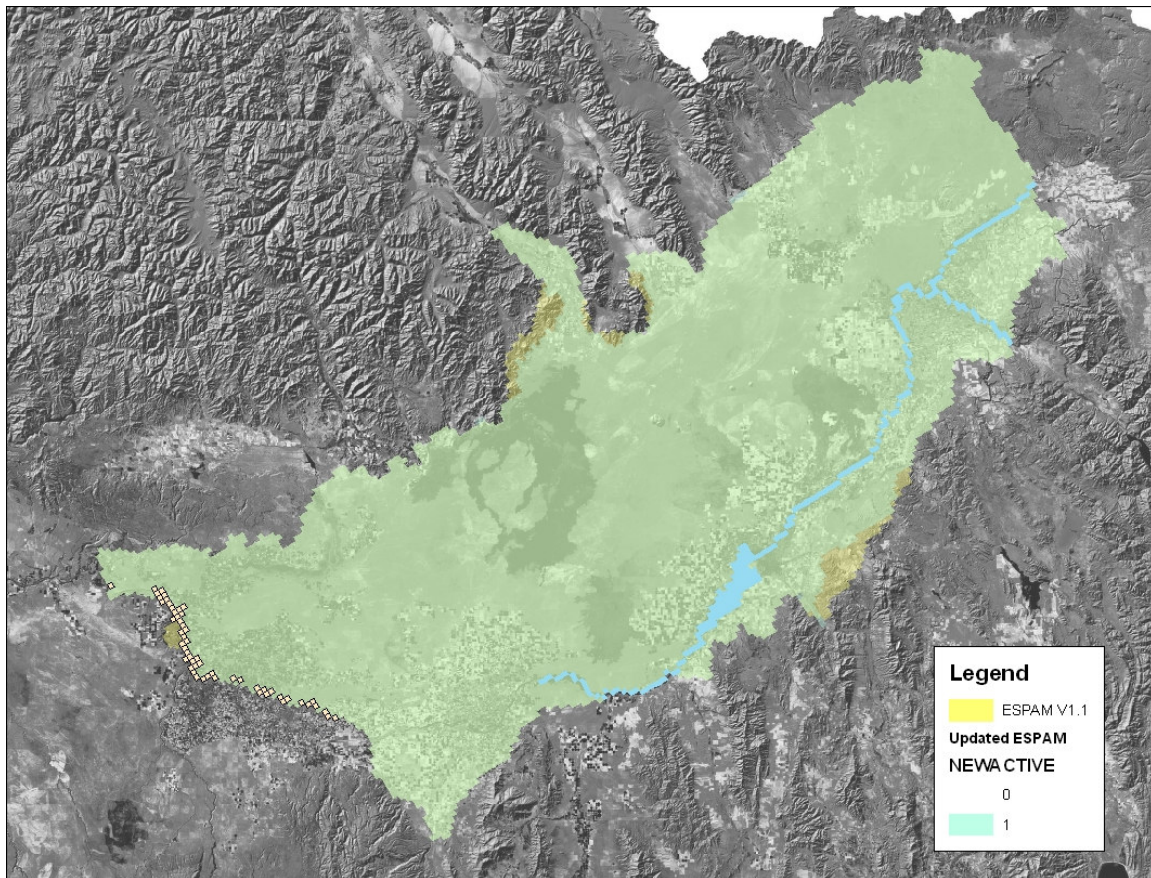


Figure 1. ESPAM1.1 and updated ESPAM boundary.

Figure 2 shows the immediate area around Pocatello. We decided to add the model cell that lies on the northwest boundary of the Portneuf Aquifer, and remove the model cells that do not overly the Portneuf Aquifer.

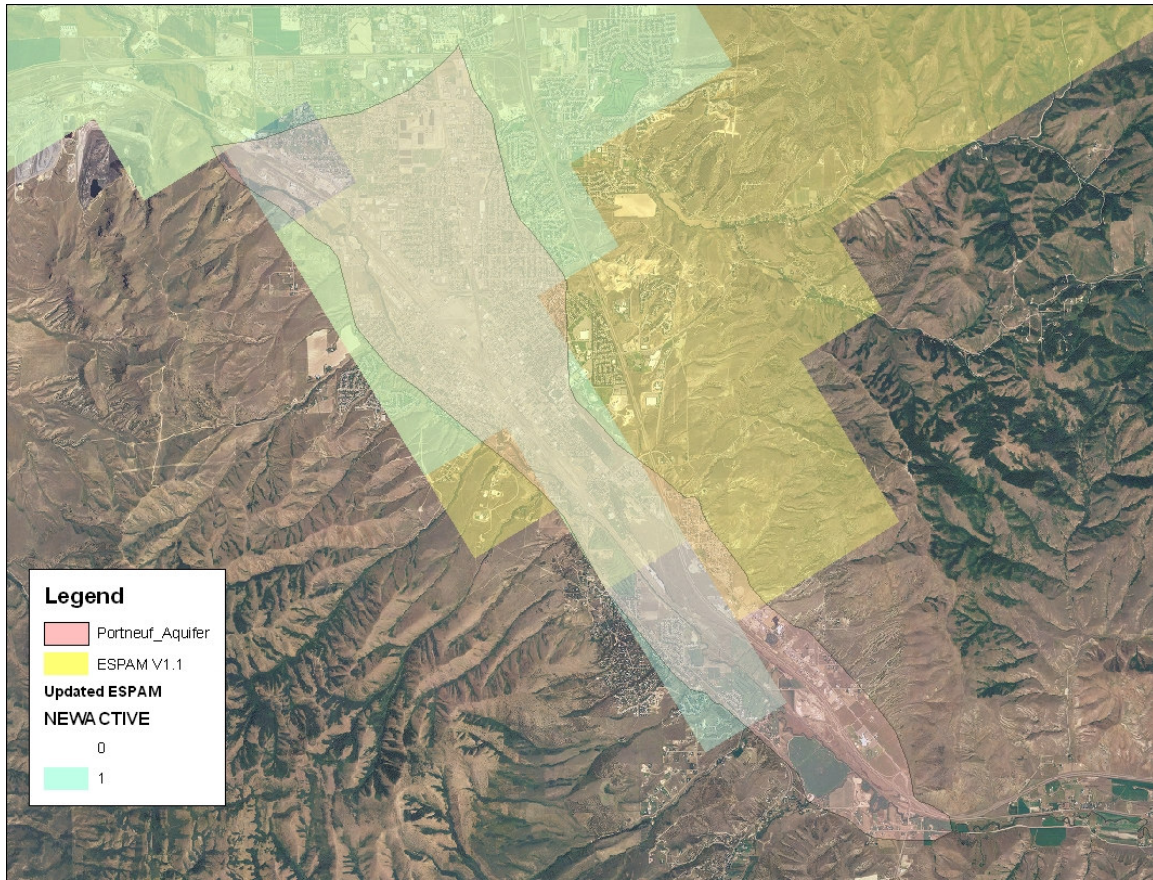


Figure 2. ESPAM1.1, updated ESPAM, and Portneuf Aquifer boundaries.

I followed the boundary north of Pocatello, removing model cells overlying non-irrigated foothills. Figure 3 shows the results. In this Figure, I am also showing the Null_Irr file from the SpatialData geodatabase found in the CD's from the May 2004 recharge tool training to highlight irrigated lands. Note that my proposed changes remove some surface water irrigated lands along tributaries to the Ross Fork.

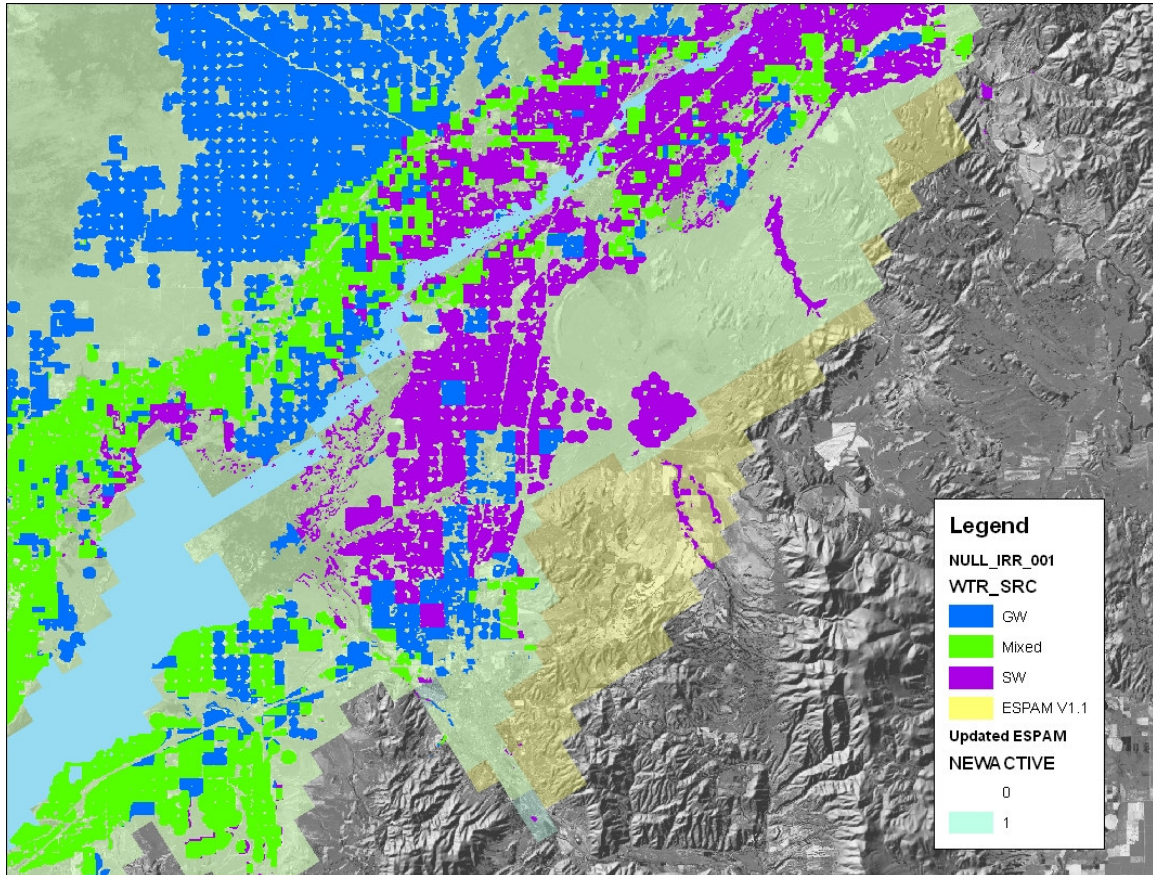


Figure 3. Boundary changes north of Pocatello.

Figure 4 shows additional changes I am proposing in the Big Lost and Little Lost drainages. These changes are just an outgrowth of the decision to eliminate cells overlying non-irrigated foothills.

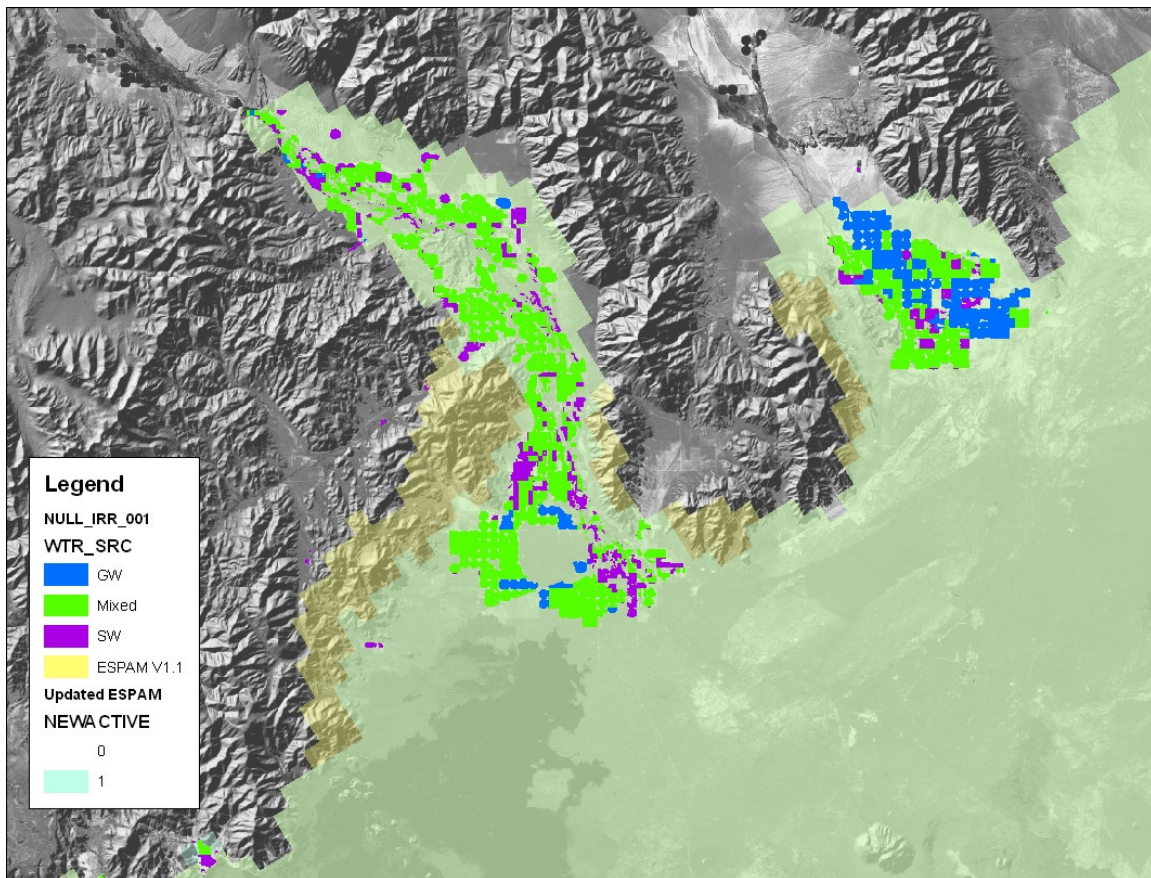


Figure 4. Proposed boundary changes in the Big Lost and Little Lost drainages.

If I don't receive any comments by April 20, I will finalize these changes to the model grid and post them on the WEB page.

Allan Wylie